



US EPA RECORDS CENTER REGION 5



481469

Village of Arlington Heights

MUNICIPAL BUILDING • 33 S. ARLINGTON HEIGHTS ROAD 60005

Area 312/253-2340

March 4, 1987

Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, Illinois 62706

Attention: Division of Land Pollution Control - Permit Section

Re: Village of Arlington Heights Municipal Landfill
Ref. #03100901 Cook County Closure Plan

Gentlemen:

The Village of Arlington Heights is in the process of preparing a final closure plan for the municipal landfill site. A proposed grading plan will allow for construction of a nine hole golf course to be operated by the Arlington Heights Park District. The golf course layout is described in the enclosed "Addendum to Master Plan, Arlington Heights Landfill, Arlington Heights, Illinois, prepared by Stanley Consultants, February, 1987.

It is the intent of the Village of Arlington Heights to conform to any and all applicable I.E.P.A. regulations concerning the closure of the landfill. Therefore, we request that you provide us with written I.E.P.A. regulations for landfill closure and any permit forms which must be executed as part of the landfill closure process.

Thank you in advance for your assistance in this matter. If you have any questions or desire additional information please contact Mr. Dennis Bowe of this office or myself.

Very truly yours,

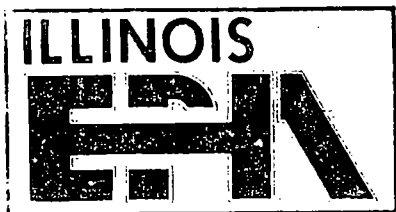
A handwritten signature in dark ink, appearing to read 'John Pezl', is written over the typed name.

John Pezl, P.E.
Director of Engineering

JP:DWB:em

RECEIVED

MAR - 6 1987



Environmental Protection Agency

1701 S. First Street Maywood, IL. 60153

312/345-9780

Refer to: Cook County - 03100901 - Arlington Heights/Municipal

March 18, 1981

Village of Arlington Heights
Municipal Building
33 S. Arlington Heights Road
Arlington Heights, Illinois 60005

Allan J. Sander
Department of Public Works
Village of Arlington Heights
Arlington Heights, Illinois 60005

Gentlemen:

A reinspection of your property located north of Dundee Road, off Kenicott Street, in Arlington Heights, Ill. was made by Bonnie Eleder, representing this Agency on February 18, 1981.

The investigation disclosed the following condition(s) which constitute violations of the Illinois Environmental Protection Act and Chapter 7 of the Illinois Pollution Control Board Rules and Regulations on Solid Waste:

... Solid waste was observed west of the large pond. These materials should be collected and properly disposed of.

It was noted that cover material has been applied to the west slope, near the large pond, but that some exposed asphalt remains at the base of the slope.

The application of final cover to the site should be completed as soon as possible.

We are requesting a reply to this letter indicating your intentions in regard to the above.

Sincerely,

Kenneth P. Bechely, Northern Region Manager
Field Operations Section
Division of Land/Noise Pollution Control

KPB:BLE:prg

cc: Division File ✓
Northern Region
Cook County Department of Environmental Control

RECEIVED
MAR 23 1981
E.P.A. - D.L.P.C.
STATE OF ILLINOIS



Village of Arlington Heights

MUNICIPAL BUILDING • 33 S. ARLINGTON HEIGHTS ROAD 60005

Area 312/253-2340

March 23, 1981

Mr. Kenneth P. Bechely
Northern Region Manager
Illinois Environmental Protection Agency
1701 South 1st Street
Maywood, Illinois 60153

Re: Cook County - 03100901 - Arlington Heights/Municipal

Dear Mr. Bechely,

Please be advised that the materials lying west of the large pond at the inactive Arlington Heights landfill site have been disposed of. These small amounts of exposed asphalt that lie at the base of the west slope of the hill will be covered as soon as sufficient cover material can be dumped from the top of the hill. Access to the west slope is difficult and we cannot risk losing our equipment in the somewhat unstable ground conditions. New cover material is coming in daily to the site.

Because of the long range proposed plans for the site require importing tremendous quantities of earth, it will be some time before the final topsoil is placed and the site fully seeded. We are, in the meantime, trying to keep close control on any and all trouble spots which may occur.

Yours truly,

A handwritten signature in cursive script, reading 'Allen J. Sander', is written over a rectangular stamp area.

Allen J. Sander
Director of Public Works

AJS:nla

RECEIVED

MAR 27 1981

E.P.A. — D.L.P.C.
STATE OF ILLINOIS



217/782-6762

Refer to: 0310090001 - Cook County
Arlington Heights LF
Certification of Closure/Post-Closure
Log No.: 1989-138
State Permits

10 AUG 89 8:13

L
P
DWST Filed 7/12/20
DWST File
C.2

August 3, 1989

Village of Arlington Heights
Municipal Building
33 South Arlington Heights Road
Arlington Heights, Illinois 60005

Gentlemen:

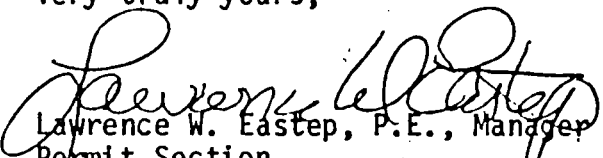
The Agency received your submittal regarding certification of completion of closure/post-closure care requirements on May 22, 1989.

Based on the documentation provided, the Agency has determined that the subject site was closed as of December 31, 1982. The Agency hereby certifies that the Village of Arlington Heights Landfill has completed the closure/post-closure care requirements in accordance with the applicable regulation as of December 31, 1985.

This certification does not relieve the Village of Arlington Heights from responsibility for any future violations of 35 Ill. Adm. Code or the Act that are associated with the subject landfill.

If you have any question regarding the above, please contact Douglas W. Clay at 217/782-6762.

Very truly yours,


Lawrence W. Eastep, P.E., Manager
Permit Section
Division of Land Pollution Control

LWE:DWC:rd2703k/62

B

cc: Maywood Region
Compliance Section
Division File
Harza Environmental Services, Inc.

**PUBLIC WORKS DEPARTMENT
VILLAGE of ARLINGTON HEIGHTS**

33 S. Arlington Heights Road
ARLINGTON HEIGHTS, ILLINOIS 60005

Phone (708) 577-5600

LETTER OF TRANSMITTAL

TO

B&V Science & Technology

101 N. Wacker Drive Suite 1100

Chicago, IL 60606

DATE	1-7-93	A.H. FILE NO.
ATTENTION	Mr. John J. Quinn	
RE	V.A.H. Landfill	
	I.E.P.A. Certification	
	of closure/post closure	

GENTLEMEN:

WE ARE SENDING YOU ☐ Attached ☐ Under separate cover via _____ the following items:

COPIES	DATE	NO.	DESCRIPTION
1	8/3/89		I.E.P.A. letter of Certification

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit _____ copies for approval |
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit _____ copies for distribution |
| <input checked="" type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return _____ corrected prints |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> _____ | |
| <input type="checkbox"/> FOR BIDS DUE _____ 19 _____ | | |

REMARKS _____

COPY TO: ☐ FILE

☐ VILLAGE MANAGER

☐ BUILDING DEPT.

☐ ENGINEERING DEPT.

☐ _____

BY: Dennis W. Rowe

TITLE: Superintendent of Utilities



ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

International Specialists in the Environment

M E M O R A N D U M

DATE: March 8, 1988
TO: Jeanne Griffin/U.S. EPA
FROM: Gerard Breen/E & E-FIT
SUBJECT: Illinois/F05-8708-001/FIL0533SA
Arlington Heights/Municipal Landfill
ILD981193428

This memorandum is in response to comments from Raymond Piccione of the United States Environmental Protection Agency (U.S. EPA) concerning the site inspection report prepared by Ecology and Environment, Inc. (E & E-FIT) for the Municipal Landfill site.

Mr. Piccione's comments concerned a well discovered on-site during the site inspection (see attachment). It was explained to Mr. Piccione that a file review did not reveal the presence of the on-site well and therefore the sampling of the well was not written into the work/sample plan. The presence of the well was discovered during the on-site interview with site representatives and because lab space is arranged prior to the site inspection, the well could not be sampled. The presence of the well was noted in the site inspection report so that U.S. EPA could take any further action it deemed necessary.

0383:3

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: February 26, 1988

SUBJECT: Arlington Heights Municipal L.T. Site Investigation (tentative
rejection)

FROM: Ray Piccione, EPA chemist

TO: Ecology & Environment F.I.T. (Gerard Breen)

At the Arlington Heights landfill, a drinking well was discovered during the on-site interview which is said to be used by municipal employees for drinking water. Although groundwater flow is to the north, the close proximity of the well to the landfill itself and the levels of contaminants found in the background soil sample 56 (south of the well) would appear to justify obtaining a drinking well sample. Please explain the reasoning behind the sampling procedure which was adopted. Thank you for your time.

Sincerely,

Raymond V. Piccione

886-1974 (Envir. Sci. Div.)

353-1422 (Tech. Sup. Unit)

TDD F05-8708-001
IND 981193428



ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

International Specialists in the Environment

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886-1974 (Envir. Sci. Div.)
353-1422 (Tech. Sup. Unit)

TDD FO5-8708-001
IND 981193428



DATE: March 9, 1989
TO: Monte Nienkerk
FROM: Gino Bruni *GB*
SUBJECT: 0310090001 - Cook
Arlington Heights/Arlington Heights Municipal Landfill
Compliance File

ARLINGTON HEIGHTS MUNICIPAL LANDFILL

A 1986 Preliminary Assessment report completed by Kenneth Page indicated the problems that existed at this site were operational problems; blowing litter and inadequate final cover. A low priority was assigned.

From the information recently reviewed on this site, additional problems exist. The following was discovered:

1) Leachate problems, observed by the Agency

- *1972 - Leachate observed along east side of the site.
- *1978 - Leachate ponded on site near the water storage tank. Evidence of past seeps on the north part of the property.
- *1979 - Leachate flowing from southwest corner into adjacent pond.
- *1980 - Leachate flowing from southwest corner into central pond. Evidence of past leachate flows.
- *1984 - The Agency collected samples from a leachate seep. The following volatile organics were detected:

<u>Compound</u>	<u>Concentration (ppb)</u>
1,2-dichloroethane	7.5
Trichloroethene	124
Benzene	22.2
Toluene	270
Carbon Tetrachloride	600
1,1,1- trichloroethane	600
1,1- dichloroethane	700
1,2- transdichloroethylene	20.7
1,2- Cis-dichloroethylene	1700

*1989 - The Agency received a complaint regarding leachate seeping into Illinois Bell Telephone vaults (02-06-89)(C89-148N). The complaint was investigated on February 24, 1989. A liquid was observed in vault #3. Samples were taken.

*Illinois Bell Telephone collected samples of the water in the vaults. Samples were analyzed by MetPath-Teterboro Laboratory. Results indicated variable concentrations of Volatile Organics. A copy of the results are attached.

2) 55 gallon drums located on site by the Agency.

*1975 - Approximately 100 - 55 gallon drums were observed near the large water storage tank, southwest area of the landfill. Most of the drums appeared empty. A copy of the photos taken on December 16, 1975 are attached.

*1976 - 55 gallon drums were observed on site. Drums were being buried. Drums were found in the pond near the water tank. Some of the drums were leaking. 40 of the drums were transported to Lake Landfill. The drums were filled with various unknown liquids. The label on the drums read: Aero Shell Fluid #4; Dupont Flour Carbon TF STE Solvent, and light Cy Oil. The Village of Arlington Heights indicated the drums had been filled with roofing tar. A copy of the photos taken on February 17, 1976 and August 10, 1976 are attached.

A draft closure/post-closure plan and application was received by the Agency on October 11, 1988. Harza Environmental Services, Inc. developed the plan.

Eight groundwater monitoring wells were installed in April/May 1988. Groundwater samples were taken from all the monitoring wells on May 12, 1988. Geologic cross-sections are attached.

Volatile Organic Analyses - Leachate and IBT Vaults

COMPOUND	Seep	CONCENTRATION (ug/l)			
		IBT Vaults			
		#1	#2 (5)	#3	#4
Chloroform	ND	ND	ND	1.9	ND
Chloromethane (1)	ND	ND	ND	ND	ND
1,2-dichloroethane (2)	*7.5	ND	*15.8	*17.4	*10.9
Trans-1,2-dichloroethene (3)	ND	104	6224	291.4	78.3
1,2-dichloropropane (4)	ND	ND	79.2	9.9	ND
Trans-1,3-dichloropropene	ND	ND	384	ND	ND
Methylene chloride	ND	ND	ND	2.8	ND
tetrachloroethene	ND	ND	ND	4.3	ND
Trichloroethene	*124	*2.3	*75.0	*28.2	ND
Vinyl chloride	ND	*12.2	*370	*42.6	*8.1
Benzene	*22.2	ND	ND	4.7	ND
Toluene	270	ND	ND	ND	ND
Carbon Tetrachloride	*600	ND	ND	ND	ND
1,1,1-trichloroethane	*600	ND	ND	ND	ND
1,1-dichloroethane	700	ND	78.2	ND	ND
1,2-transdichloroethylene	20.7	ND	ND	ND	ND
1,2-Cis-dichloroethylene	1700	ND	ND	ND	ND

ND = Parameter not detected.

- (1) Methyl chloride.
- (2) Ethylene dichloride.
- (3) Acetylene dichloride.
- (4) Propylene dichloride.
- (5) Higher of two analyses.

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MAR 14 1989

IEPA-DLPC

Illinois Bell Telephone (IBT) collected leachate samples from the Vaults.

In August of 1984, IEPA collected leachate samples from a seep.

*Concentration above Primary Drinking Water Regulations. SDWA.

Date: DECEMBER 16, 1975

Time: 3:15 PM

Photograph By:

Robert Wengrow

Location:

COOK COUNTY-LPC
ARLINGTON HEIGHTS/MUNICIPAL
03100901

Comments:

FACING SOUTHEAST FROM
SOUTHWEST PART OF SITE.



RECEIVED

MAR 14 1989

IEPA-DLPC

Date: DECEMBER 16, 1975

Time: 3:20 PM

Photograph By:

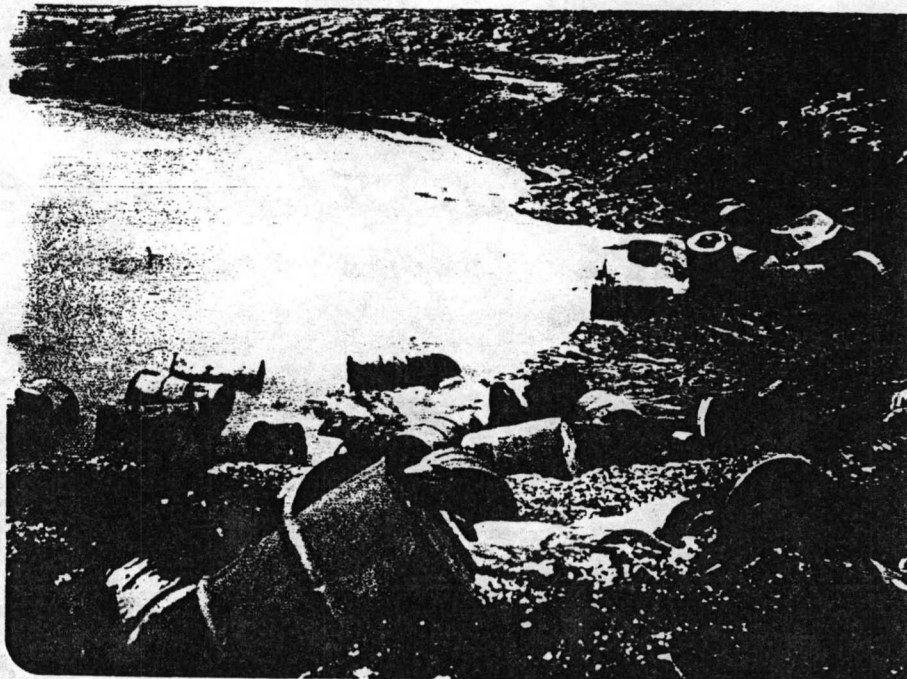
Robert Wengrow

Location:

COOK COUNTY-LPC
ARLINGTON HEIGHTS/MUNICIPAL
03100901

Comments:

FACING NORTHEAST FROM
SOUTHWEST PART OF SITE.



Date: 8-10-76

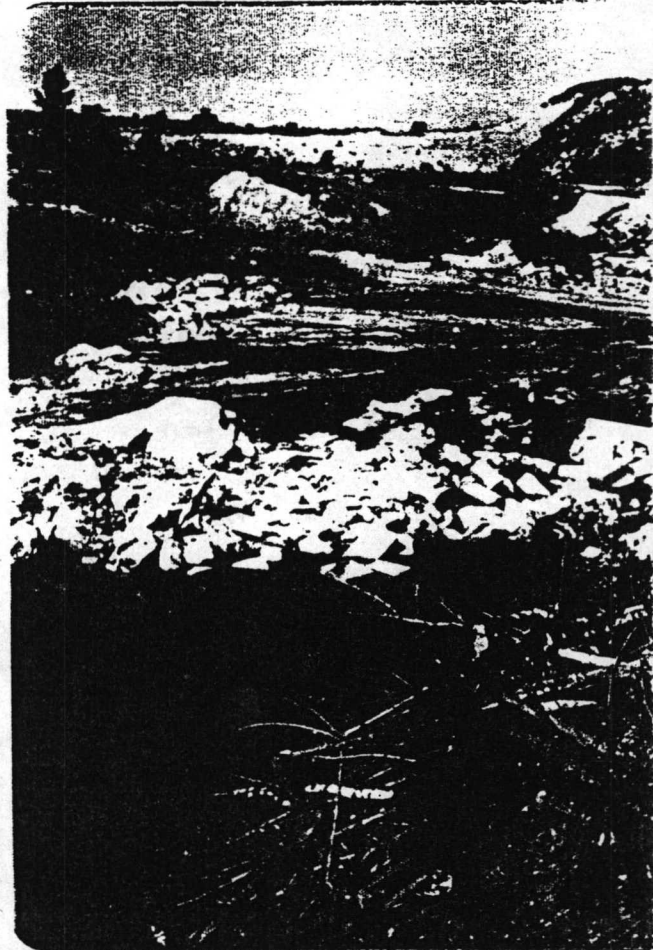
Time: 3:30 - 4:15 P.M.

Photograph By: *Finneth Buckley*

Location: COOK CO. - L.P.C.
ARLINGTON HEIGHTS / MUNICIPAL
03100901

Comments:

FACING NORTH-NORTHEAST FROM
SOUTHWEST SECTION OF SITE.



Date: 8-10-76

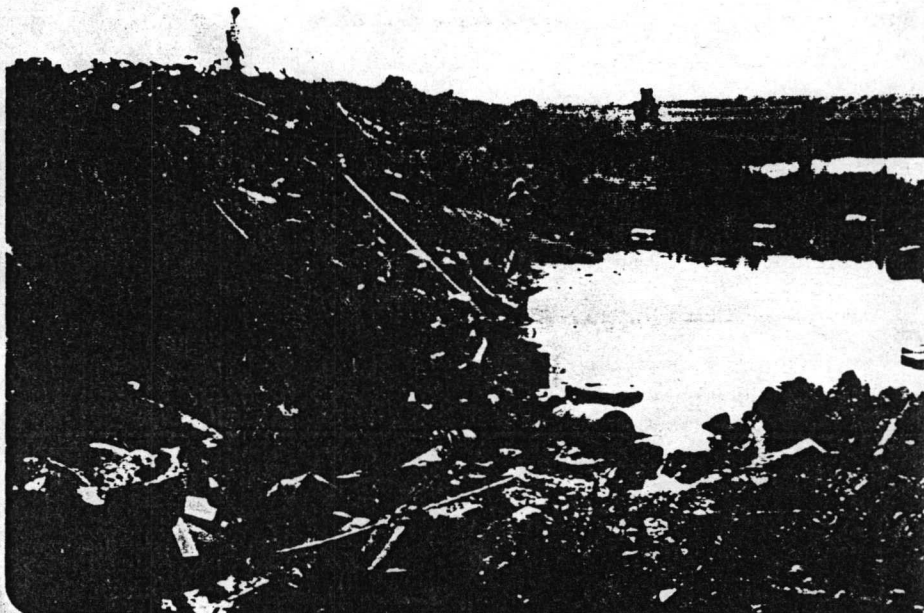
Time:

Photograph By: *Finneth Buckley*

Location:
COOK COUNTY - L.P.C.
ARLINGTON HEIGHTS / MUNICIPAL

Comments:

FACING SOUTH FROM SOUTHWEST
SECTION OF SITE



Date: 8-10-76

Time: 3:30 - 4:15 P.M.

Photograph By: Kenneth Buckley

Location:

COOK COUNTY - L.P.C.

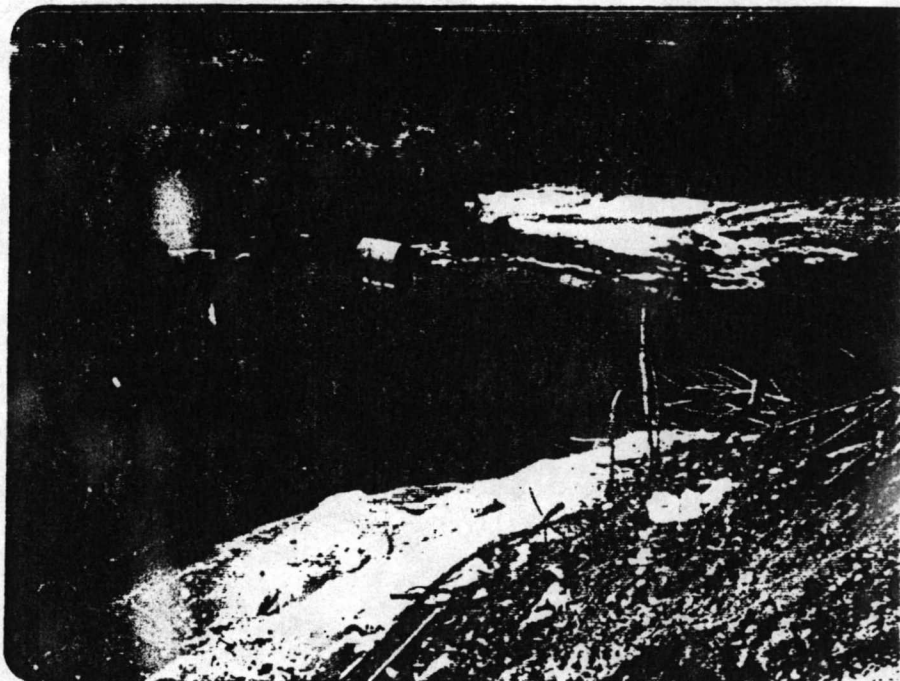
ARLINGTON HEIGHTS / MUNICIPAL

03100901

Comments:

FACING NORTHWEST FROM

SOUTHWEST SECTION OF SITE.



Date: 8-10-76

Time: 3:30 - 4:15 P.M.

Photograph By: Kenneth Buckley

Location:

COOK COUNTY - L.P.C.

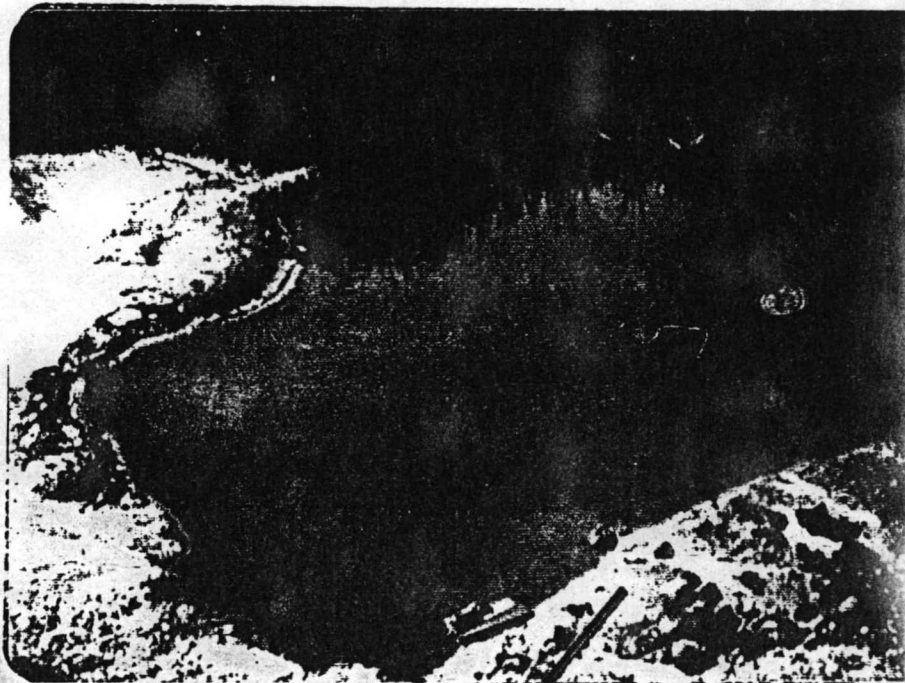
ARLINGTON HEIGHTS / MUNICIPAL

0310090,

Comments:

FACING WEST FROM SOUTHWEST

SECTION OF SITE.



FEBRUARY 17, 1976

12:25 PM

COOK COUNTY - LPC
ARLINGTON HEIGHTS / MUNI

03100901

Comment:

FACING SOUTH FROM



Photograph By:

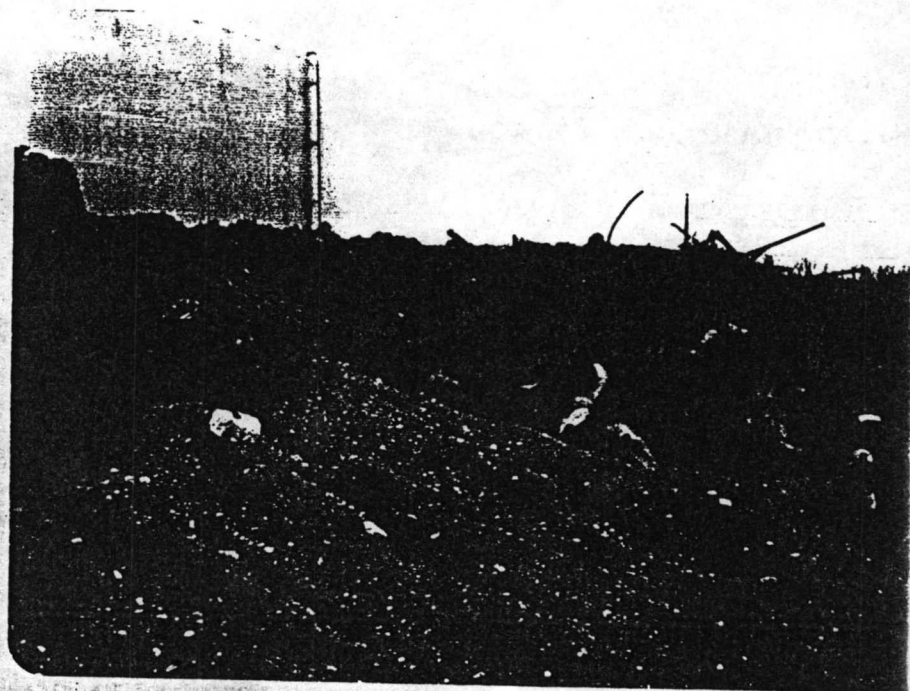
Robert Wengrow

FEBRUARY 17, 1976

12:30 PM

COOK COUNTY - LPC
ARLINGTON HEIGHTS / MUNI
03100901

FACING SOUTHEAST FROM
SOUTHWEST PART OF SITE.



Photograph By:

R. Wengrow

FEBRUARY 17, 1976

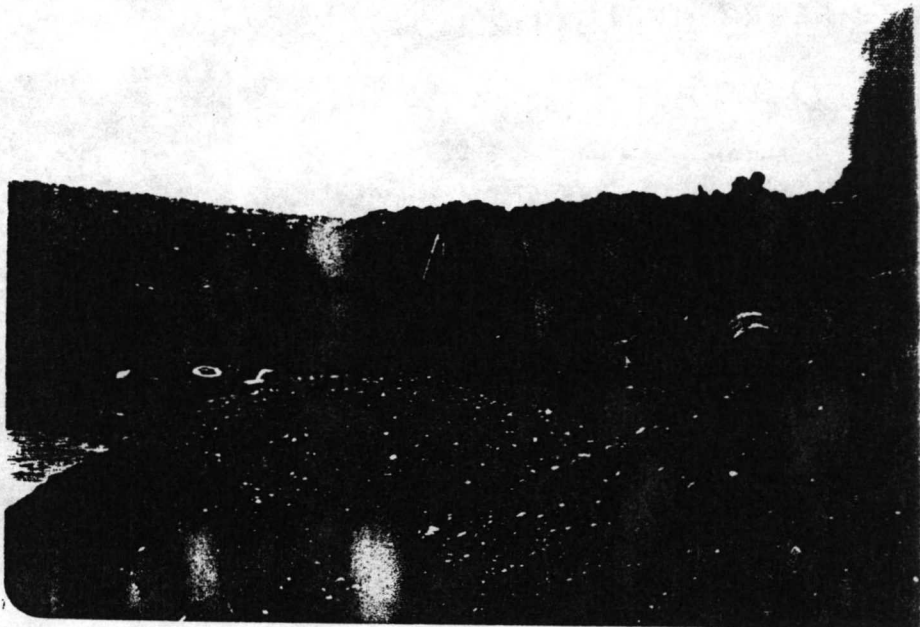
12:30 PM

COOK COUNTY-LPC
Location: ARLINGTON HTS./MUNI
03100901

Comment:
FACING EAST FROM SOUTHWEST
PART OF SITE.

Photograph By:

R. Wengrow



FEBRUARY 17, 1976

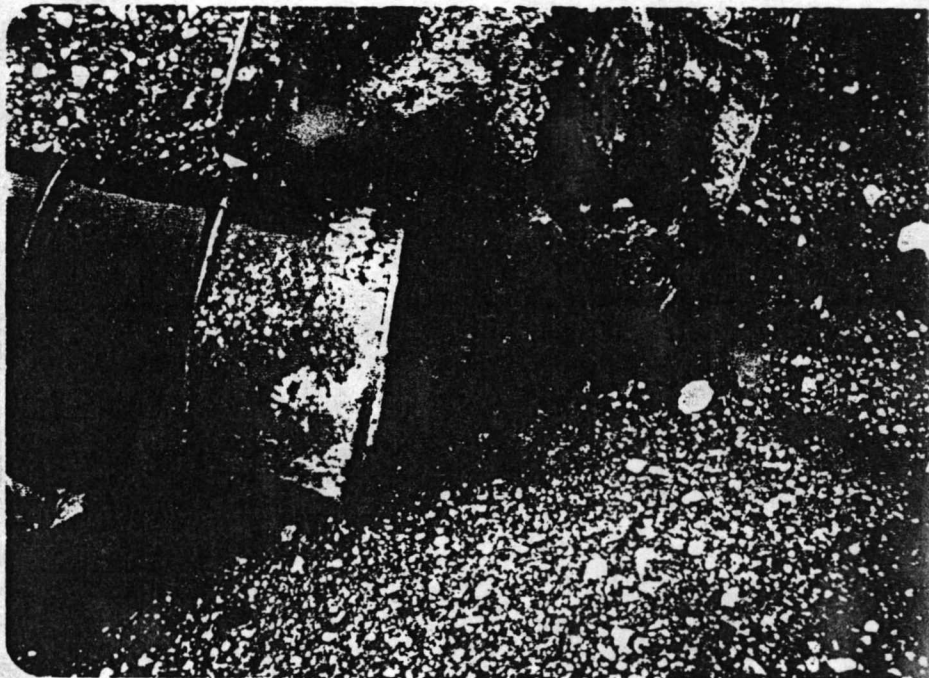
12:35 PM.

COOK COUNTY-LPC
ARLINGTON HTS./MUNI
03100901

FACING SOUTHEAST FROM
SOUTHWEST PART OF SITE.

Photograph By:

Robert Wengrow



Date: FEBRUARY 17, 1976

Time: 12:35 PM

Location: COOK COUNTY-LPC
ARLINGTON HEIGHTS/MUNI
03100901

Comments:

FACING SOUTHEAST FROM
SOUTHWEST PART OF SITE.

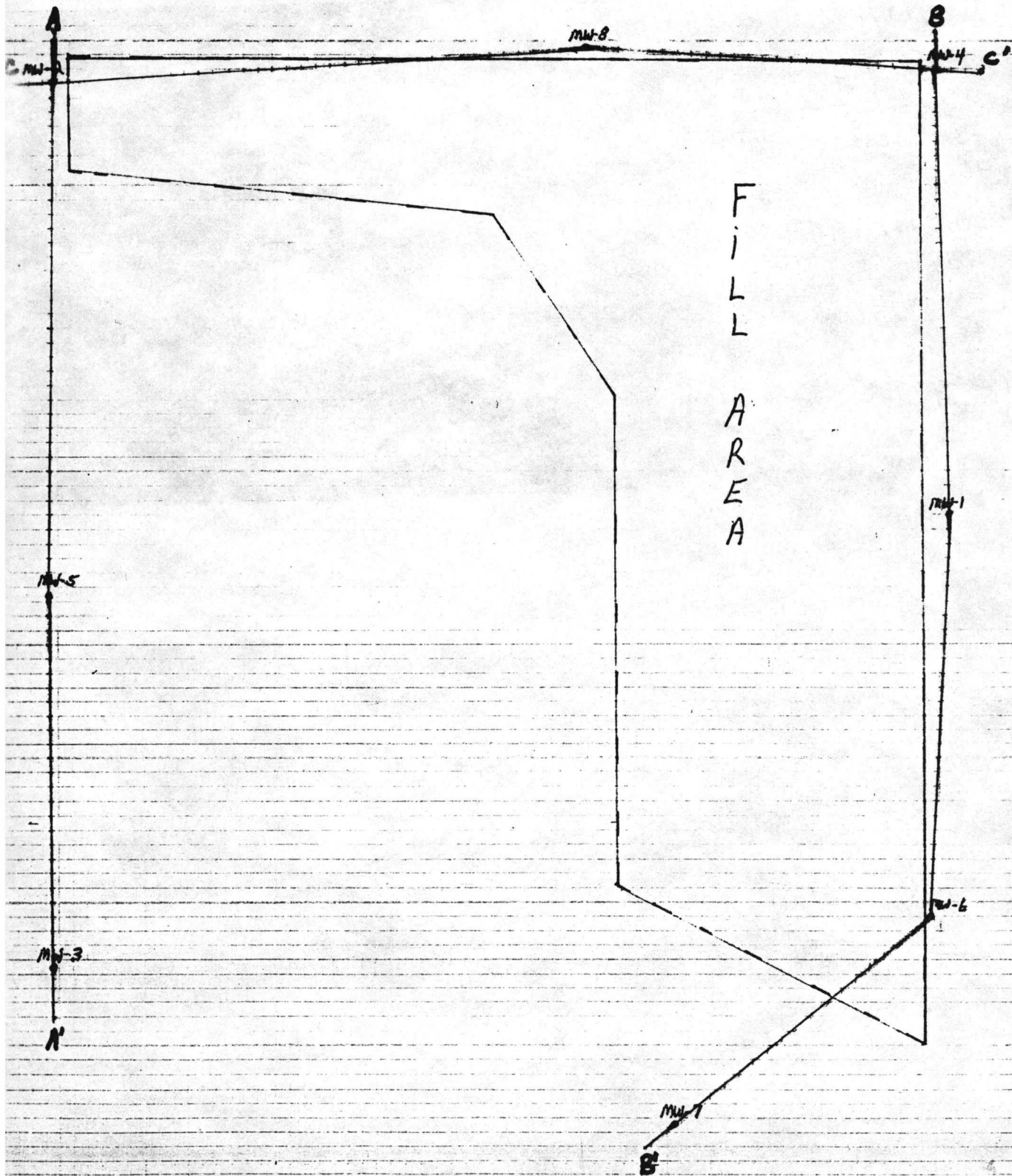
Photograph By:

Robert Wengrow



Photograph By:

ARLINGTON HEIGHTS MUNICIPAL LANDFILL



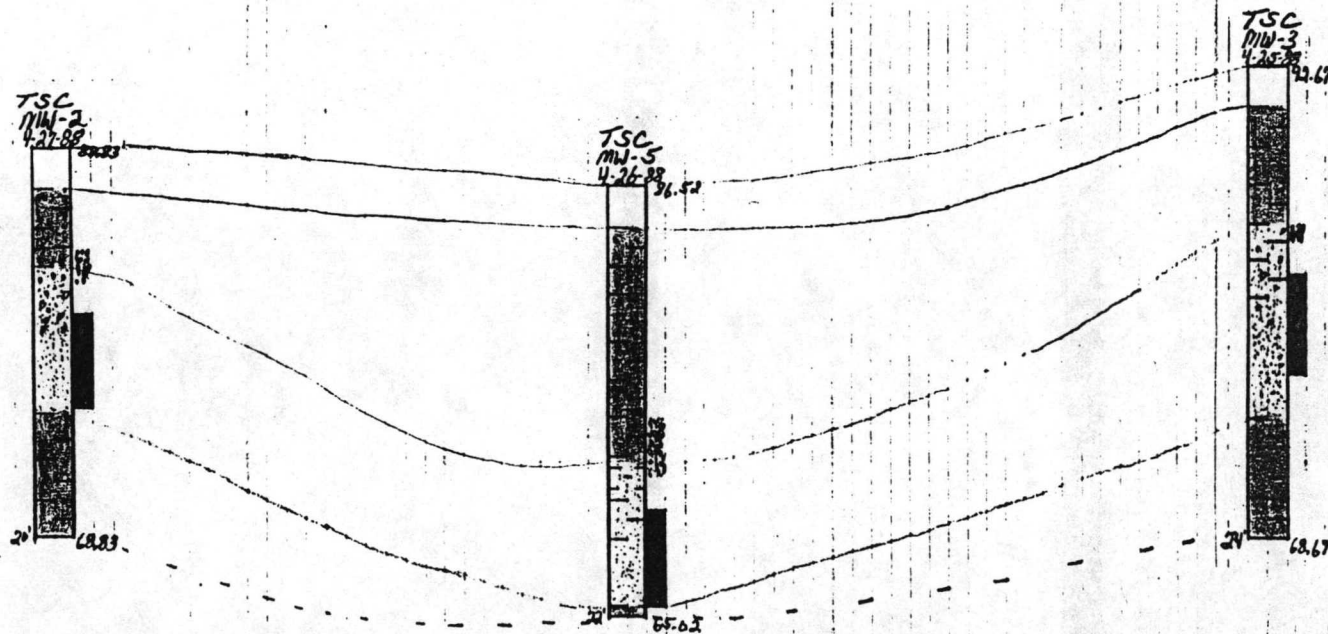
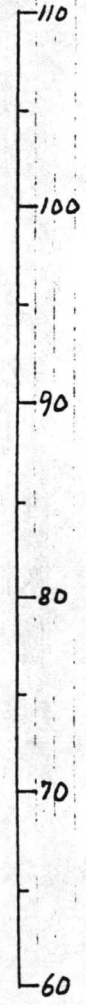
ARLINGTON HEIGHTS MUNICIPAL LANDFILL SECTION A-A'

- TOP SOIL
- CLAY
- SAND
- SAND & GRAVEL
- SALT
- BOULDER

0' ————— 200'

NORTH

SOUTH



LANDFILL SECTION B-B'

ELEVATION FEET (ARBITRARY SITE DATUM)

SOUTH

TSC
MW-4
4-28-88
99.62

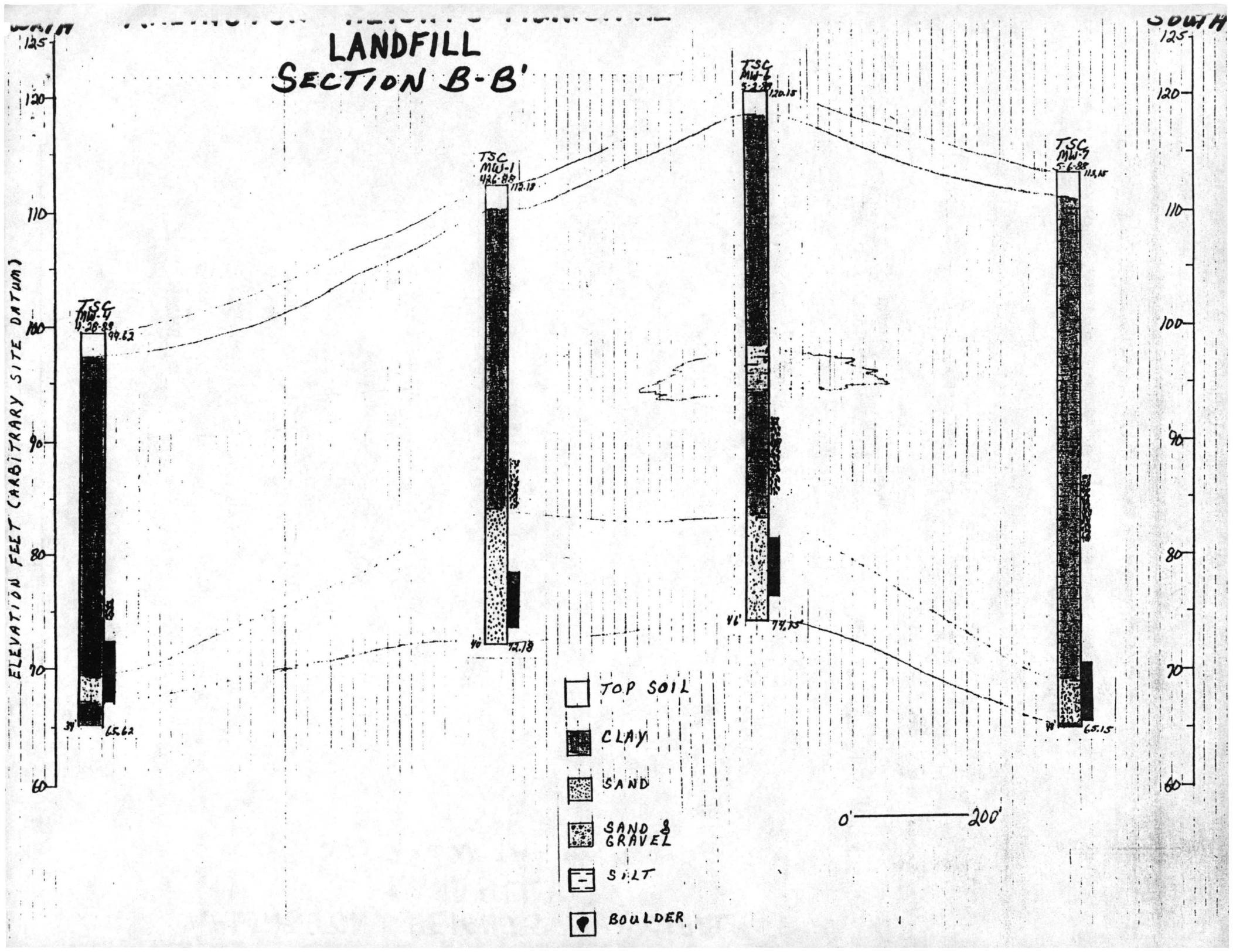
TSC
MW-1
4-26-88
112.18

TSC
MW-6
5-2-88
120.18

TSC
MW-7
5-6-88
111.15

-  TOP SOIL
-  CLAY
-  SAND
-  SAND & GRAVEL
-  SILT
-  BOULDER

0' ————— 200'



ARLINGTON HEIGHTS MUNICIPAL LANDFILL SECTION C-C'

WEST

ELEVATION FEET (ARBITRARY SITE DATUM)

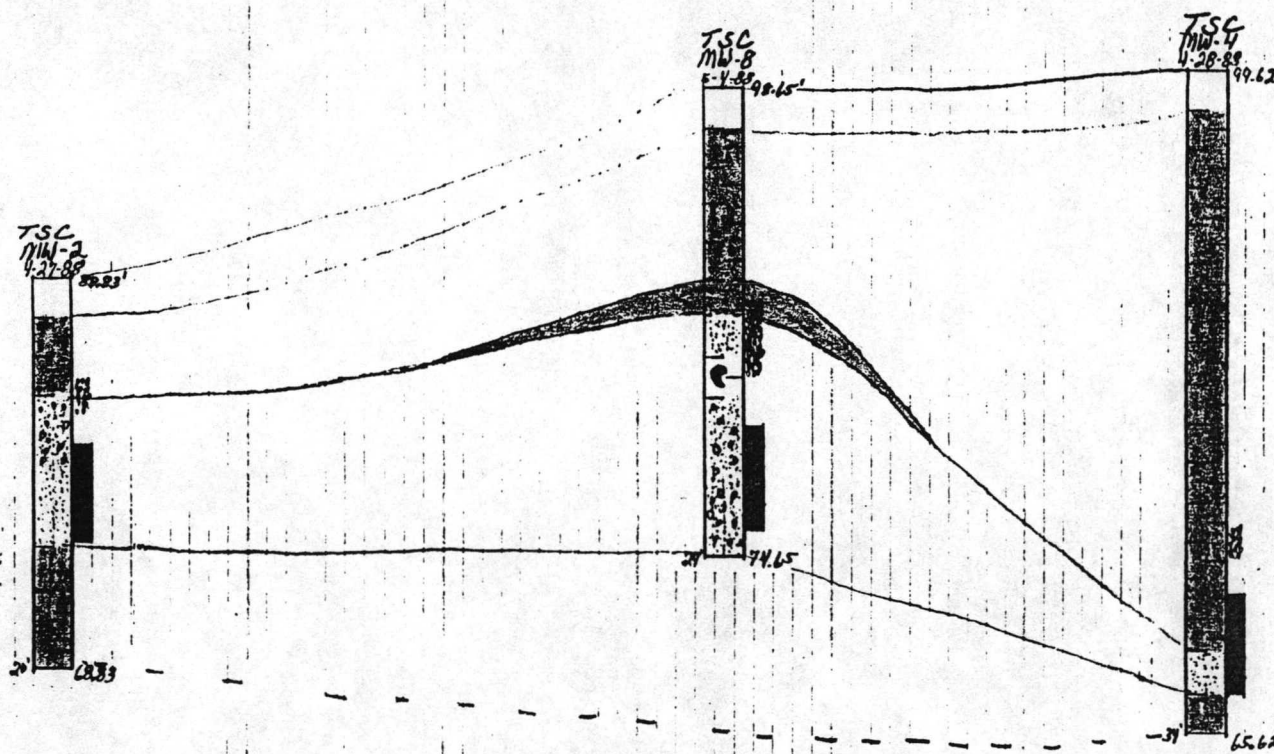
110
100
90
80
70
60

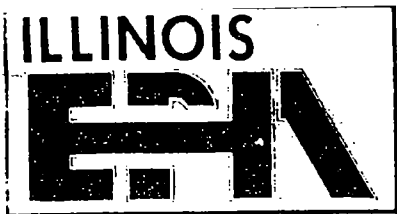
EAST

110
100
90
80
70
60

- ☐ TOP SOIL
- ☒ CLAY
- ☒ SAND
- ☒ SAND & GRAVEL
- ☒ SILT
- ☒ BOULDER

0' 200'





Environmental Protection Agency

1701 S. First Street Maywood, IL. 60153

312/345-9780

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Field Operations Section
Division of Land/Noise Pollution Control

KPB:BLE:prg

cc: Division File ✓
Northern Region
Cook County Department of Environmental Control

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MAR 23 1981

E.P.A. - D.L.P.C.
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Village of Arlington Heights

MUNICIPAL BUILDING • 33 S. ARLINGTON HEIGHTS ROAD 60005

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Director of Public Works

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Thank you in advance for your assistance in this matter. If you have any questions or desire additional information please contact Mr. Dennis Bowe of this office or myself.

Very truly yours,

John Pezl, P.E.
Director of Engineering

JP:DWB:em

RECEIVED

MAR -6 1987



DATE: March 9, 1989
TO: Monte Nienkerk
FROM: Gino Bruni *GB*
SUBJECT: 0310090001 - Cook
Arlington Heights/Arlington Heights Municipal Landfill
Compliance File

ARLINGTON HEIGHTS MUNICIPAL LANDFILL

A 1986 Preliminary Assessment report completed by Kenneth Page indicated the problems that existed at this site were operational problems; blowing litter and inadequate final cover. A low priority was assigned.

From the information recently reviewed on this site, additional problems exist. The following was discovered:

- 1) Leachate problems observed by the Agency
 - *1972 - Leachate observed along east side of the site.
 - *1978 - Leachate ponded on site near the water storage tank. Evidence of past seeps on the north part of the property.
 - *1979 - Leachate flowing from southwest corner into adjacent pond.
 - *1980 - Leachate flowing from southwest corner into central pond. Evidence of past leachate flows.
 - *1984 - The Agency collected samples from a leachate seep. The following volatile organics were detected:

<u>Compound</u>	<u>Concentration (ppb)</u>
1,2-dichloroethane	7.5
Trichloroethene	124
Benzene	22.2
Toluene	270
Carbon Tetrachloride	600
1,1,1- trichloroethane	600
1,1- dichloroethane	700
1,2- transdichloroethylene	20.7
1,2- Cis-dichloroethylene	1700

*1989 - The Agency received a complaint regarding leachate seeping into Illinois Bell Telephone vaults (02-06-89)(C89-148N). The complaint was investigated on February 24, 1989. A liquid was observed in vault #3. Samples were taken.

*Illinois Bell Telephone collected samples of the water in the vaults. Samples were analyzed by MetPath-Teterboro Laboratory. Results indicated variable concentrations of Volatile Organics. A copy of the results are attached.

2) 55 gallon drums located on site by the Agency.

*1975 - Approximately 100 - 55 gallon drums were observed near the large water storage tank, southwest area of the landfill. Most of the drums appeared empty. A copy of the photos taken on December 16, 1975 are attached.

*1976 - 55 gallon drums were observed on site. Drums were being buried. Drums were found in the pond near the water tank. Some of the drums were leaking. 40 of the drums were transported to Lake Landfill. The drums were filled with various unknown liquids. The label on the drums read: Aero Shell Fluid #4; Dupont Flour Carbon TF STE Solvent, and light Cy Oil. The Village of Arlington Heights indicated the drums had been filled with roofing tar. A copy of the photos taken on February 17, 1976 and August 10, 1976 are attached.

A draft closure/post-closure plan and application was received by the Agency on October 11, 1988. Harza Environmental Services, Inc. developed the plan.

Eight groundwater monitoring wells were installed in April/May 1988. Groundwater samples were taken from all the monitoring wells on May 12, 1988. Geologic cross-sections are attached.

Volatile Organic Analyses - Leachate and IBT Vaults

COMPOUND	Seep	CONCENTRATION (ug/l) -----IBT Vaults-----			
		#1	#2 (5)	#3	#4
Chloroform	ND	ND	ND	1.9	ND
Chloromethane (1)	ND	ND	ND	ND	ND
1,2-dichloroethane (2)	*7.5	ND	*15.8	*17.4	*10.9
Trans-1,2-dichloroethene (3)	ND	104	6224	291.4	78.3
1,2-dichloropropane (4)	ND	ND	79.2	9.9	ND
Trans-1,3-dichloropropene	ND	ND	384	ND	ND
Methylene chloride	ND	ND	ND	2.8	ND
tetrachloroethene	ND	ND	ND	4.3	ND
Trichloroethene	*124	*2.3	*75.0	*28.2	ND
Vinyl chloride	ND	*12.2	*370	*42.6	*8.1
Benzene	*22.2	ND	ND	4.7	ND
Toluene	270	ND	ND	ND	ND
Carbon Tetrachloride	*600	ND	ND	ND	ND
1,1,1-trichloroethane	*600	ND	ND	ND	ND
1,1-dichloroethane	700	ND	78.2	ND	ND
1,2-transdichloroethylene	20.7	ND	ND	ND	ND
1,2-Cis-dichloroethylene	1700	ND	ND	ND	ND

ND = Parameter not detected.

- (1) Methyl chloride.
- (2) Ethylene dichloride.
- (3) Acetylene dichloride.
- (4) Propylene dichloride.
- (5) Higher of two analyses.

RECEIVED

MAR 14 1989

IEPA-DLPC

Illinois Bell Telephone (IBT) collected leachate samples from the Vaults.

In August of 1984, IEPA collected leachate samples from a seep.

*Concentration above Primary Drinking Water Regulations. SDWA.

Date: DECEMBER 16, 1975

Time: 3:15 PM

Photograph By:
Robert Wengrow

Location:
COOK COUNTY-LPC
ARLINGTON HEIGHTS/MUNICIPAL
03100901

Comments:
FACING SOUTHEAST FROM
SOUTHWEST PART OF SITE.



RECEIVED

MAR 14 1989

IEPA-DLPC

Date: DECEMBER 16, 1975

Time: 3:20 PM

Photograph By:
Robert Wengrow

Location:
COOK COUNTY-LPC
ARLINGTON HEIGHTS/MUNICIPAL
03100901

Comments:
FACING NORTHEAST FROM
SOUTHWEST PART OF SITE.



Date: 8-10-76

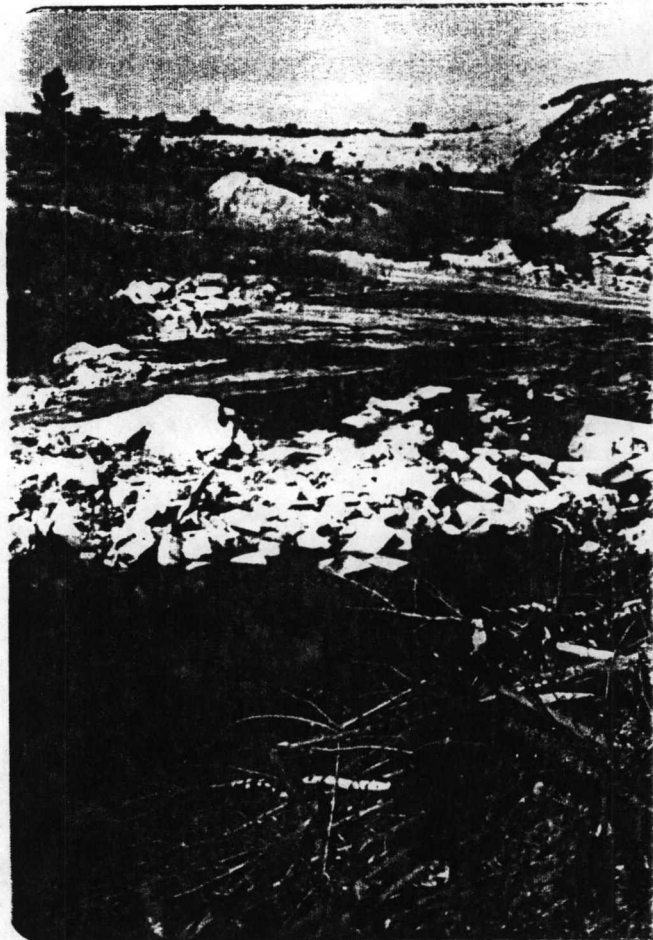
Time: 3.30 - 4.15 P.M.

Photograph By: *Kenneth Buckley*

Location: COOK CO. - L.P.C.
ARLINGTON HEIGHTS / MUNICIPAL
03100901

Comments:

FACING NORTH - NORTHEAST FROM
SOUTHWEST SECTION OF SITE.



Date: 8-10-76

Time:

Photograph By: *Kenneth Buckley*

Location:
COOK COUNTY - L.P.C.
ARLINGTON HEIGHTS / MUNICIPAL

Comments:

FACING SOUTH FROM SOUTHWEST
SECTION OF SITE



Date: 8-10-76

Time: 3:30 - 4:15 P.M.

Photograph By: Kenneth Buckley

Location:

COOK COUNTY - L.P.C.

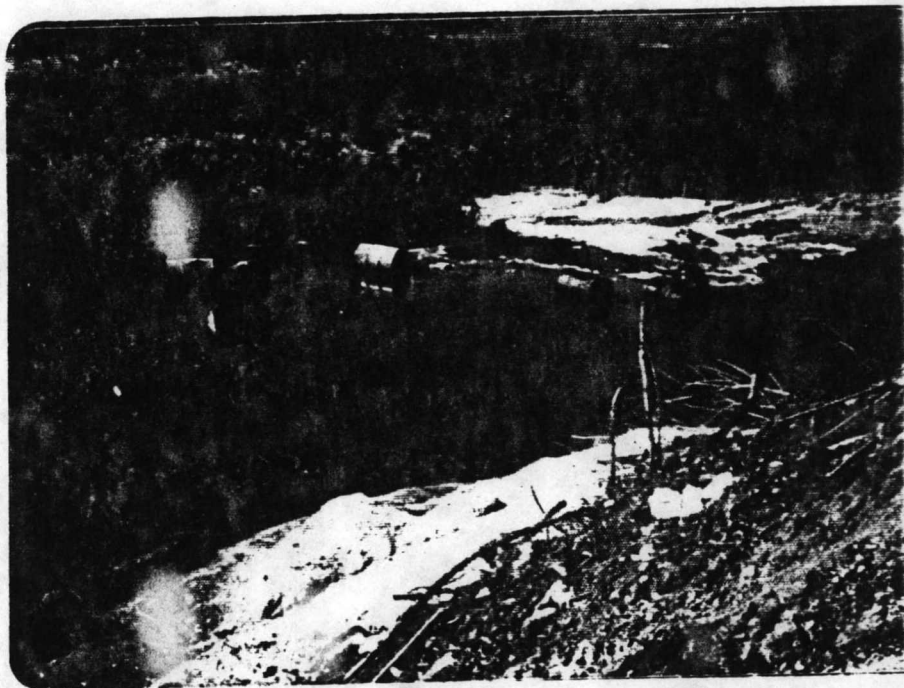
ARLINGTON HEIGHTS / MUNICIPAL

03100901

Comments:

FACING NORTHWEST FROM

SOUTHWEST SECTION OF SITE.



Date: 8-10-76

Time: 3:30 - 4:15 P.M.

Photograph By: Kenneth Buckley

Location:

COOK COUNTY - L.P.C.

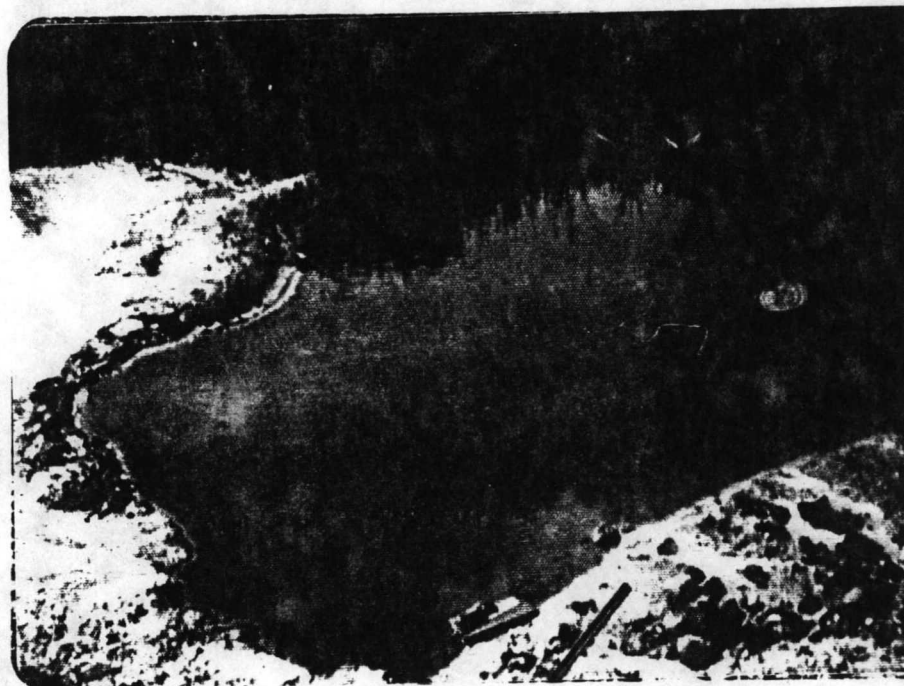
ARLINGTON HEIGHTS / MUNICIPAL

03100901

Comments:

FACING WEST FROM SOUTHWEST

SECTION OF SITE.



FEBRUARY 17, 1976

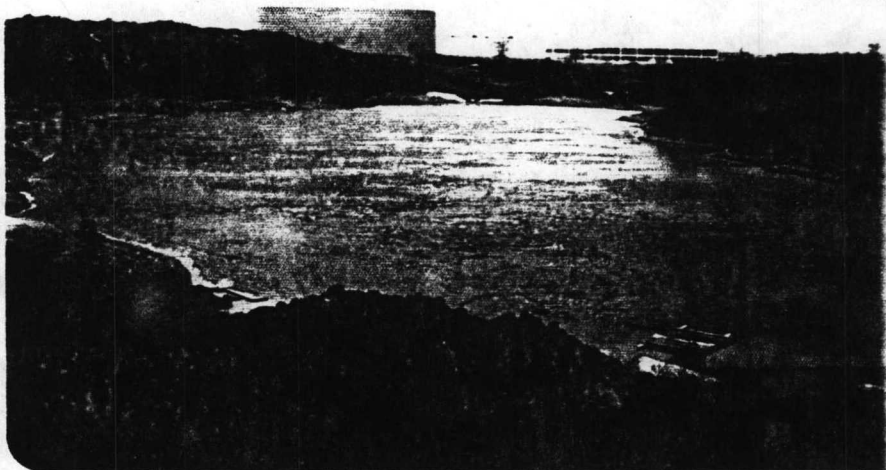
Time 12:25 PM

COOK COUNTY-LPC
ARLINGTON HEIGHTS/MUNI
03100901

Comment:
FACING SOUTH FROM

Photograph By:

Robert Wengrow



FEBRUARY 17, 1976

12:30 PM

COOK COUNTY-LPC
ARLINGTON HEIGHTS/MUNI
03100901

FACING SOUTHEAST FROM
SOUTHWEST PART OF SITE.

Photograph By:

R. Wengrow



100. FEBRUARY 17, 1976

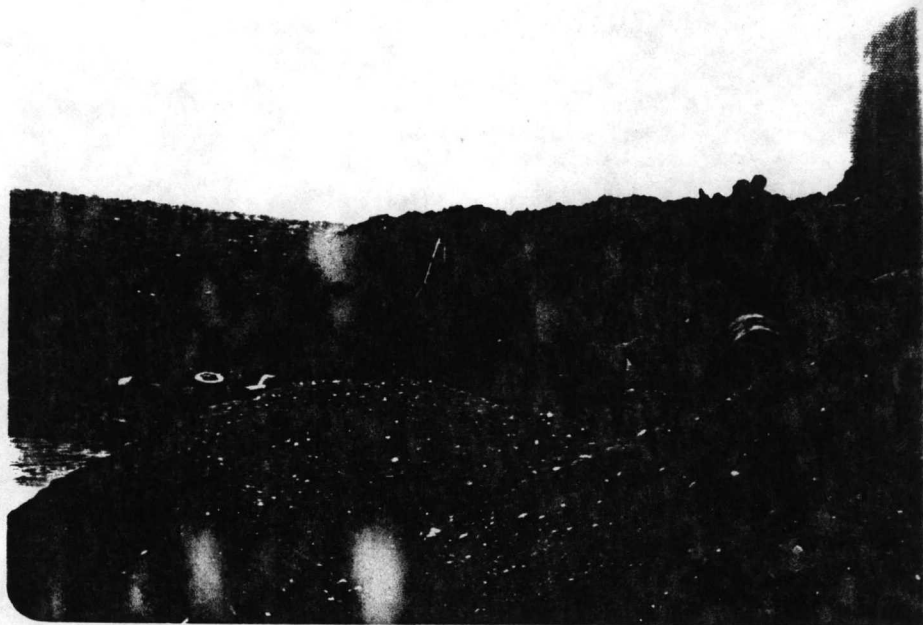
12:30 PM

COOK COUNTY-LPC
Location: ARLINGTON HTS./MUNI
03100901

Comment:
FACING EAST FROM SOUTHWEST
PART OF SITE.

Photograph By:

R. Wengrow



FEBRUARY 17, 1976

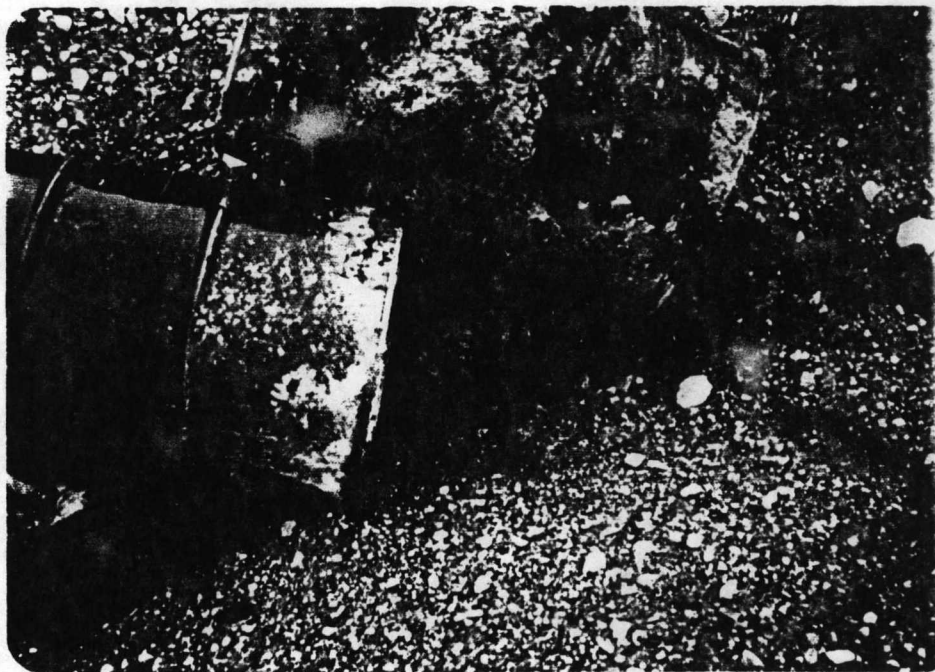
12:35 PM.

COOK COUNTY-LPC
ARLINGTON HTS./MUNI
03100901

FACING SOUTHEAST FROM
SOUTHWEST PART OF SITE.

Photograph by:

Robert Wengrow



Date: FEBRUARY 17, 1976

Time: 12:35 PM

Location: COCK COUNTY-LPC
ARLINGTON HEIGHTS/MUNI
03100901

Comments:

FACING SOUTHEAST FROM
SOUTHWEST PART OF SITE.

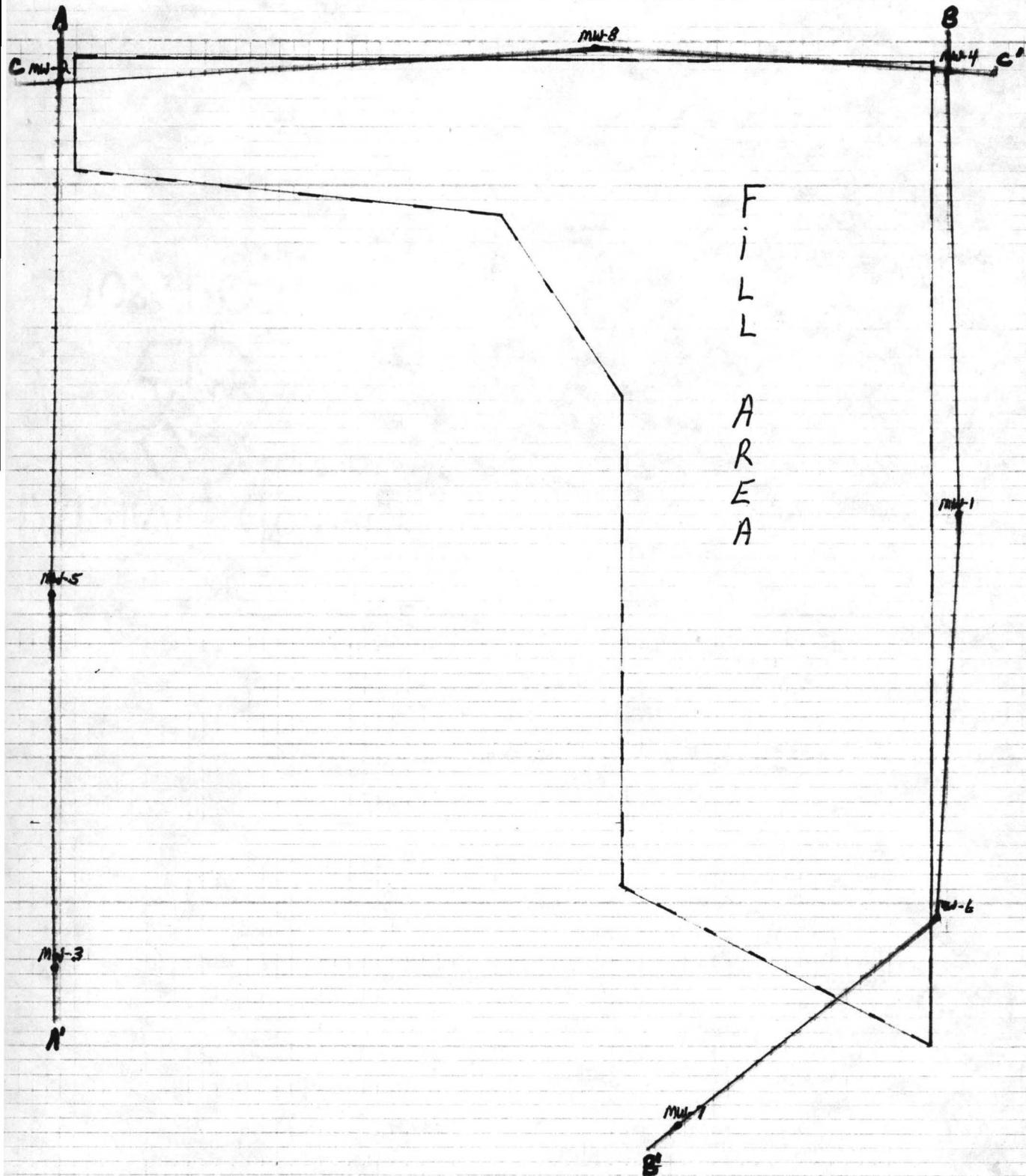
Photograph By:

Robert Wangrow

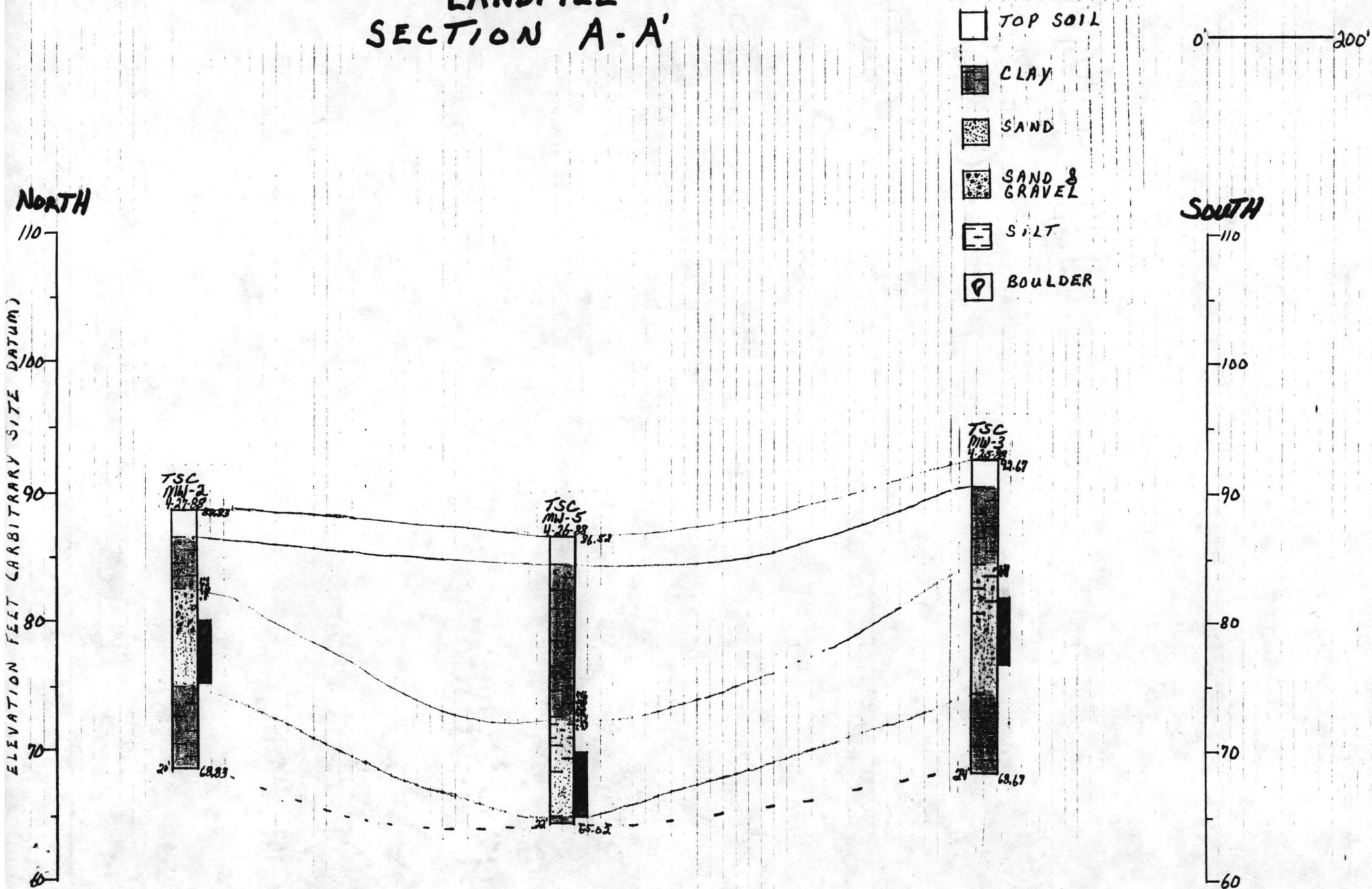


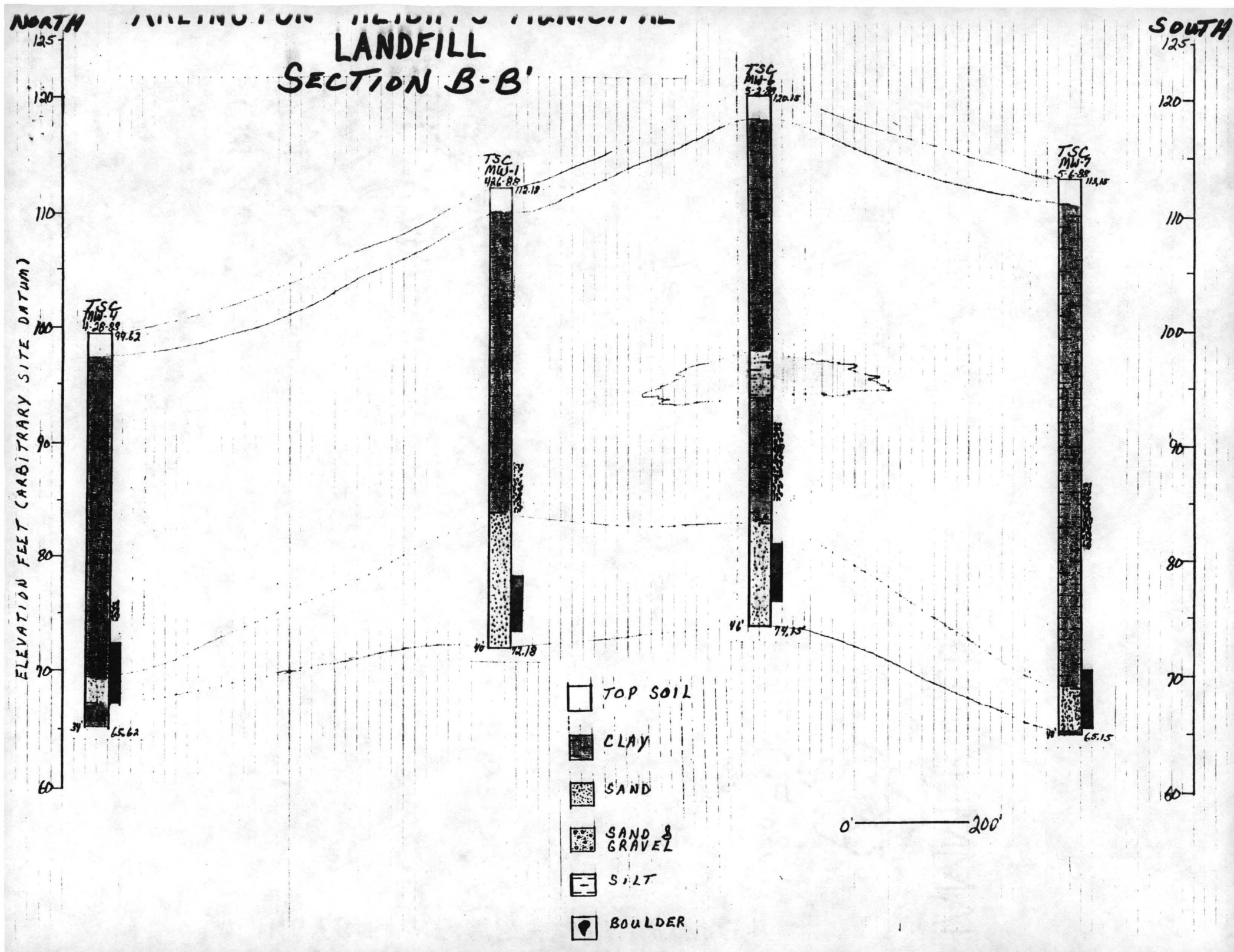
Photograph By:

ARLINGTON HEIGHTS MUNICIPAL LANDFILL



TON HEIGHTS MUNICIPAL
LANDFILL
SECTION A-A'





ARLINGTON HEIGHTS MUNICIPAL LANDFILL SECTION C-C'

WEST

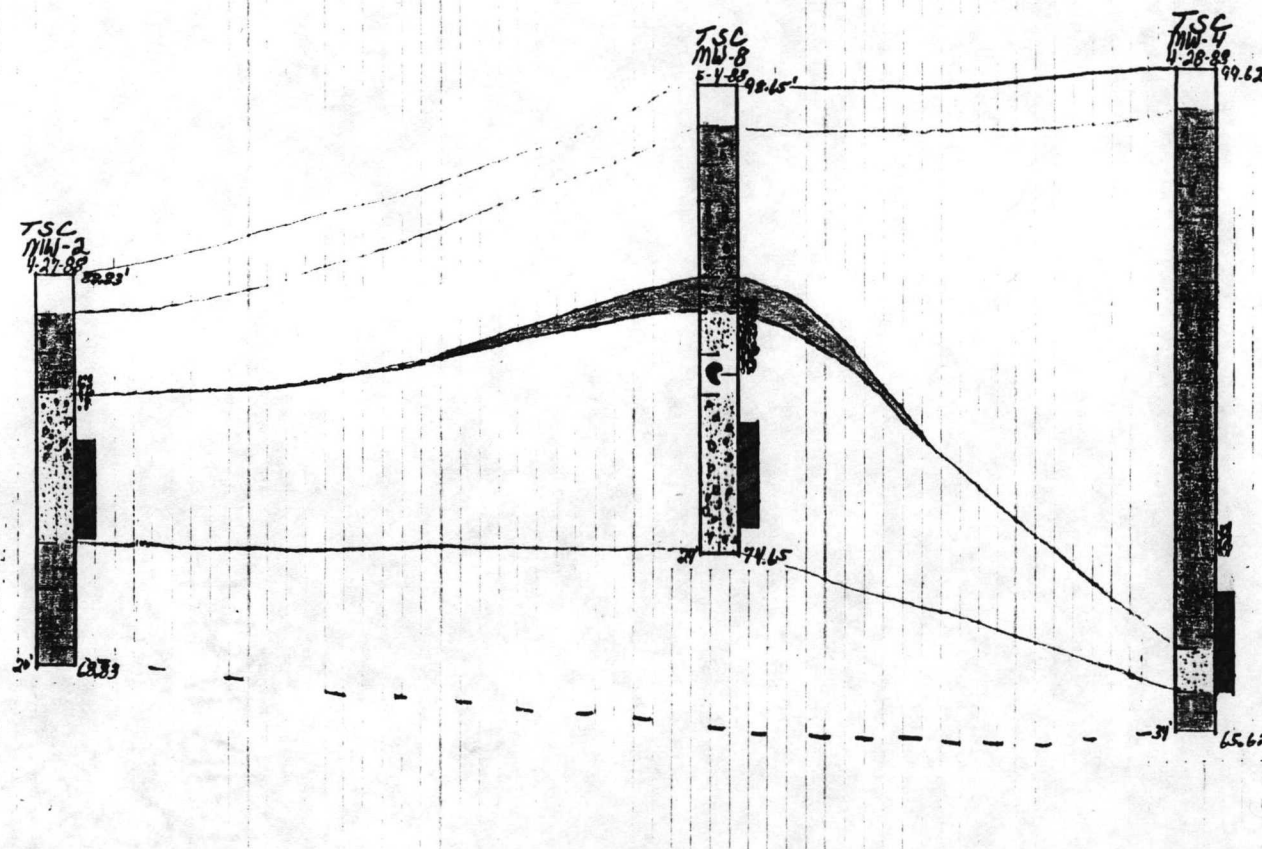
EAST

- TOP SOIL
- CLAY
- SAND
- SAND & GRAVEL
- SILT
- B

 BOULDER

0' ————— 200'

ELEVATION FEET (ARBITRARY SITE DATUM)





ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

International Specialists in the Environment

M E M O R A N D U M

DATE: July 7, 1987
TO: File
FROM: Paul J. Sklar *P.J.S.*
SUBJECT: Illinois/F05-8705-017/IL0533GT
Municipal Landfill, Arlington Heights
ILD981193428

On May 4, 1987, Ecology and Environment, Inc., (FIT Region V) was tasked by U.S. EPA to complete a site inspection work plan for the Municipal Landfill site in Arlington Heights, Illinois. Based on the potential for contaminant migration from the site via groundwater, the site received a preliminary score of 10.96 under the Hazard Ranking System (HRS) model. An observed release of contaminants to the aquifer of concern from this site would raise the HRS score to 30.34.

Under criteria developed by the U.S. EPA based on the preliminary HRS scores, this site is eligible to receive hydrogeologic work including the installation and sampling of groundwater monitoring wells. However, upon examination of the local geology it is recommended that no hydrogeologic field investigation be implemented.

Approximately 2,000 residents in the town of Long Grove, two miles northwest of the landfill, use groundwater exclusively. Arlington Heights, Palatine and Buffalo Grove receive water from Lake Michigan but have groundwater wells for emergencies.

These wells, including the Long Grove wells are drawing from a bedrock aquifer. The bedrock in the area consists of limestone,

dolomite, and shale of the Niagran Series and is considered the aquifer of concern. These bedrock units are overlain by glacial deposits of the Wedron Formation, Wadsworth Till Member, deposited during the Woodfordian Substage of the Wisconsin glacialiation (William et al. 1975). The Wadsworth Till is described in well logs as predominantly clay, ranging in color from brown to blue to gray, interbedded with some sand and gravel. The Wadsworth Till Member is continuous across the 3-mile radius and contains clay layers up to 110 feet thick.

If the site is to be drilled, it is estimated that a minimum of eight wells drilled to a depth of 200 feet, and four wells to a depth of 40 feet would be necessary to adequately assess the potential impact of contaminants on the aquifer of concern. The estimated subcontractor costs for the implementation of this monitoring program would be excessive for the results that would be obtained.

Drilling and installation of groundwater monitoring wells at this site would be an unnecessary expenditure of U.S. EPA funds for the following reasons:

- The total depth to the aquifer of concern at this site is 180 feet.
- The aquifer of concern is separated from this site by approximately 180 feet of the Wadsworth Till Member containing numerous, areally continuous clay deposits.
- The permeability of till may range from 10^{-5} cm/sec to less than 10^{-7} cm/sec, as defined in the HRS user's manual.
- The probability of observing contaminants in the aquifer of concern is low. Contaminants would most likely migrate laterally, to the north, toward Buffalo Creek (Hughes 1968).

REFERENCES

Hughes, George M., February 22, 1968, letter from Illinois State Geological Survey assistant geologist to Clarence Klassen, Dept. of Public Health, Springfield, Illinois.

Willman, H.B., E. Atherton, T.C. Buschback, C. Collinson, J.C. Frye, M.E. Hopkins, J.A. Lineback, J.A. Simon, 1975. Handbook of Illinois Stratigraphy, Illinois State Geological Survey Bulletin 95.

98I:4T

Town Arlington Heights Township Wheeling

Company Peter Snelten & Sons No.

Farm Adler, John N. No.

Authority Peter Snelten & Sons

Elevation 744 T.M.

Collector

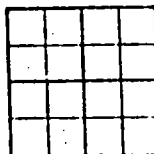
Confidential

Date Drilled Sept. 1940

Map No. 3

n. 113

Sec. 7



GEOLOGICAL WATER SURVEYS WATER

Completed

10. Dept. Mines and Minerals permit No. 11866

11. Property owner Vil. Arlington W.

Address 33 S. Arl. Hts. R.R. 1st

Driller Egerer-Galloway License 1

12. Water from sandstone 13. County

at depth 912 to 1795 ft.

14. Screen: Diam. - in.

Length: - ft. Slot -

15. Casing and Liner Pipe

16. Size Hole below casing: 17 in.

17. Static level 563 ft. below casing top which

above ground level. Pumping level 653 ft. w

gpm for 24 hours.

18. FORMATIONS PASSED THROUGH

Glacial Drift

Limestone

Shale

Dolomite

Sandstone

Dolomite with shale & sandston

Sandstone (some shale 1309-147

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED *Wm. A. Cushman* DATE

1439

COOK

7-12N-11E

ILLINOIS GEOLOGICAL SURVEY, URBANA

(10-10)

NO ENVELOPE

INDEX NO. 0307

COUNTY Cook

DRILL RECORD

(A32187-20M)

7-12N-11E

ILLINOIS GEOLOGICAL SURVEY, URBANA

(10-10)

COOK

7-12N-11E

ILLINOIS GEOLOGICAL SURVEY, URBANA

(10-10)

COOK

7-12N-11E

ILLINOIS GEOLOGICAL SURVEY, URBANA

(10-10)

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ILLINOIS GEOLOGICAL SURVEY, URBANA

(10-10)

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ILLINOIS GEOLOGICAL SURVEY, URBANA

(10-10)

COOK

7-12N-11E

ILLINOIS GEOLOGICAL SURVEY, URBANA

(10-10)

COOK

7-12N-11E

ILLINOIS GEOLOGICAL SURVEY, URBANA

ER SURVEYS SECTION. BE SURE TO

Map No. 3
p. 11E

Sec.
7

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

Completed 12-30-71

10. Dept. Mines and Minerals permit No. 11866 Year 71

11. Property owner Vil. Arlington Well No. 13

Address 30 S. Arl. Hts. Rte. 1 Arl. Hts. Ill

Driller Egerer-Galloway License No. 92-289

12. Water from sandstone 13. County Cook

0112	1735	6	6				
------	------	---	---	--	--	--	--

at depth 172 to 179 ft. Sec. 6
 6. 2N

14. Screen: Diam. in. Twp. 42N

Length: ft. Slot Rng. 11E

Elev. _____

15. Casing and Liner Pipe

Diam (in.)	Kind and Weight	From (Ft.)	To (Ft.)
26	Steel 3/8" A-53	+2	182
22	" " "	0	490
18	" " "	892	1046

SHOW
LOCATION IN
SECTION PLAT
1019' NL, 1194!
EL, NE SW
(Permit)

16. Size Hole below casing: 17 in.

17. Static level 563 ft. below casing top which is 2 ft. above ground level. Pumping level 653 ft. when pumping at 1100 gpm for 24 hours.

18.	FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
	Glacial Drift	180	180
	Limestone	170	350
	Shale	115	465
	Dolomite	290	755
	Sandstone	157	912
	Dolomite with shale & sandstone	239	1151
	Sandstone (some shale 1309-1422)	644	1795
	(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

* 1) für einen guten Zweck verwendet.

SIGNED Wm. C. Harrison DATE 1/28/72

S.S. #57260

NO. 0307

44-11E

(10-40) 44-77-2

COOK

C-424-77E